

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P859032

Luminaire Tested: **LD4C50D010 EU4509050 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C50D010 EU4509050 4LBMDSWH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

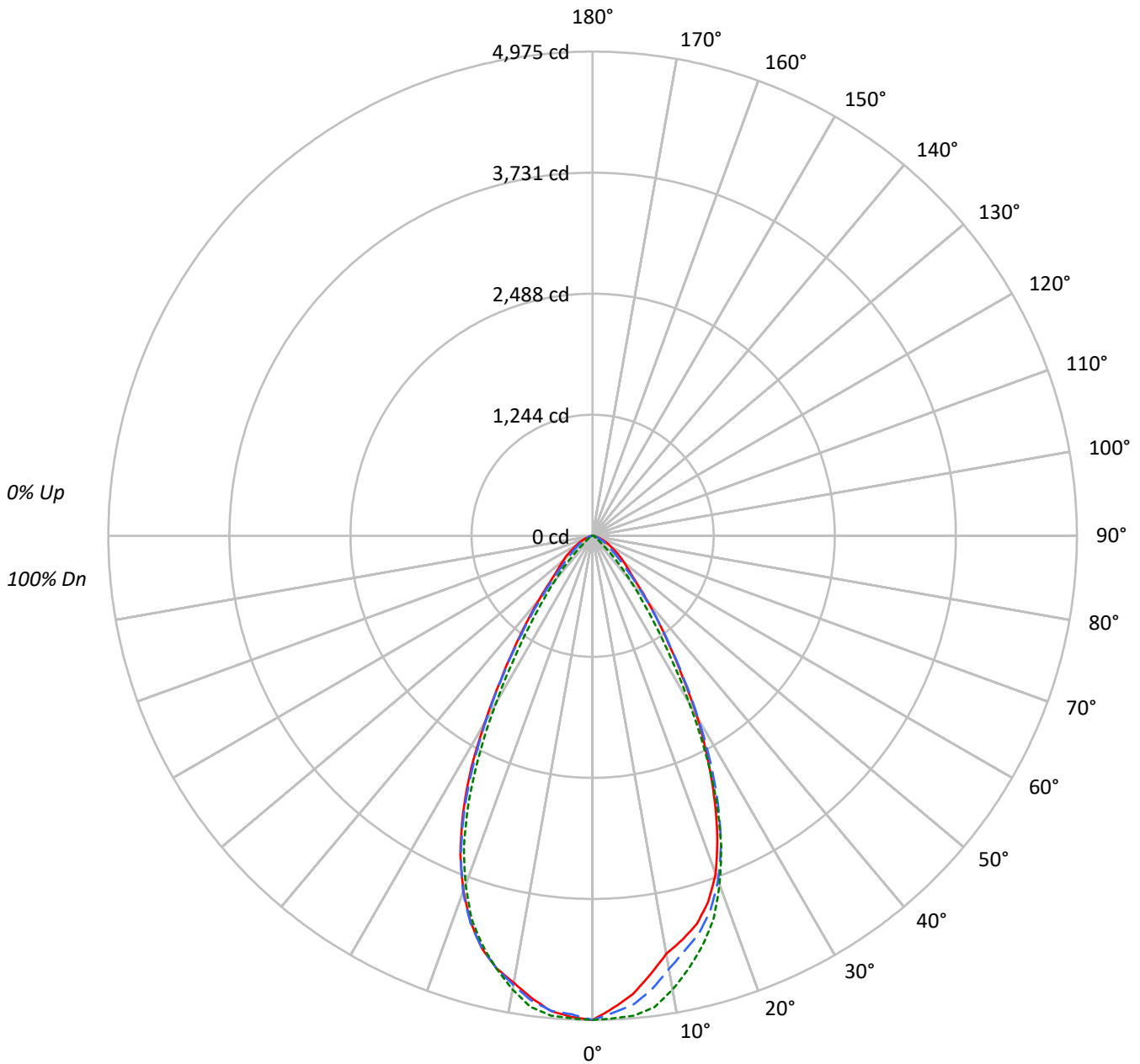
Lumens per Lamp: N/A
Luminaire Lumens: 4529.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72					72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62					62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58					58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	611196	611196	611196
5°	583218	610213	604528
10°	543954	590436	581815
15°	525271	554587	558492
20°	483168	498242	507276
25°	400467	407759	427550
30°	304642	281760	313366
35°	206263	168813	208572
40°	140471	96737	136157
45°	97451	48717	92118
50°	79298	19820	74157
55°	64192	12337	58431
60°	50984	9435	46242
65°	40203	7820	35727
70°	30352	6897	27587
75°	21882	5459	20079
80°	16343	5448	13584
85°	10854	5356	10854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.4	10.1
10°-20°	1201.8	26.5
20°-30°	1378.9	30.4
30°-40°	837.7	18.5
40°-50°	359.0	7.9
50°-60°	172.2	3.8
60°-70°	83.7	1.8
70°-80°	31.1	0.7
80°-90°	7.1	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3038.1	67.1
0°-40°	3875.8	85.6
0°-60°	4407.0	97.3
0°-90°	4529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4529.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4975	4975	4975	4975	4975	
5°	4729	4833	4948	4898	4902	439
15°	4130	4226	4360	4387	4391	1150
25°	2954	3050	3008	3123	3154	1340
35°	1375	1394	1126	1360	1391	881
45°	561	499	280	450	530	456
55°	300	223	58	200	273	270
65°	138	92	27	84	123	140
75°	46	31	12	27	42	51
85°	8	8	4	4	8	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4975.0	4975.0	4975.0	4975.0	4975.0	4975.0	4975.0	4975.0	4975.0
2.5°	4855.9	4909.7	4905.9	4952.0	4963.5	4952.0	4921.3	4952.0	4948.1
5°	4729.2	4790.6	4832.9	4909.7	4948.1	4940.5	4898.2	4905.9	4902.0
7.5°	4544.8	4621.6	4694.6	4809.8	4882.8	4879.0	4817.5	4806.0	4790.6
10°	4360.4	4433.4	4517.9	4637.0	4733.0	4748.4	4686.9	4671.5	4663.9
12.5°	4252.8	4310.4	4368.0	4471.8	4556.3	4587.0	4552.5	4556.3	4552.5
15°	4129.9	4187.5	4225.9	4302.7	4360.4	4402.6	4387.3	4410.3	4391.1
17.5°	3945.5	4014.6	4030.0	4087.6	4129.9	4156.8	4172.1	4195.2	4164.4
20°	3695.7	3749.5	3768.7	3791.8	3811.0	3845.6	3891.7	3914.7	3880.1
22.5°	3346.1	3449.9	3446.0	3434.5	3453.7	3465.2	3538.2	3576.7	3549.8
25°	2954.3	3061.9	3050.3	3004.2	3008.1	3031.1	3123.3	3173.3	3154.1
27.5°	2543.2	2643.1	2616.2	2527.9	2504.8	2539.4	2658.5	2716.1	2704.6
30°	2147.5	2212.8	2170.6	2013.1	1986.2	2028.4	2182.1	2239.7	2209.0
32.5°	1721.1	1771.0	1751.8	1559.7	1513.6	1555.9	1736.5	1790.2	1755.7
35°	1375.3	1421.4	1394.5	1167.9	1125.6	1171.7	1360.0	1421.4	1390.7
37.5°	1102.6	1137.2	1102.6	860.5	822.1	868.2	1048.8	1129.5	1091.1
40°	875.9	902.8	856.7	633.9	603.2	626.2	795.2	875.9	849.0
42.5°	691.5	710.7	660.8	464.8	430.3	461.0	599.3	672.3	656.9
45°	560.9	560.9	499.4	322.7	280.4	311.2	449.5	526.3	530.2
47.5°	480.2	468.7	391.9	215.1	161.4	203.6	357.3	438.0	449.5
50°	414.9	399.5	322.7	157.5	103.7	146.0	295.8	376.5	388.0
52.5°	357.3	345.8	268.9	122.9	73.0	111.4	249.7	326.5	338.1
55°	299.7	292.0	222.8	96.0	57.6	84.5	199.8	265.1	272.8
57.5°	245.9	234.3	180.6	80.7	46.1	69.2	165.2	219.0	226.7
60°	207.5	195.9	146.0	65.3	38.4	53.8	134.5	180.6	188.2
62.5°	172.9	161.4	119.1	53.8	30.7	46.1	107.6	146.0	153.7
65°	138.3	130.6	92.2	42.3	26.9	34.6	84.5	115.3	122.9
67.5°	111.4	103.7	73.0	34.6	23.1	26.9	65.3	92.2	99.9
70°	84.5	76.8	53.8	26.9	19.2	23.1	49.9	69.2	76.8
72.5°	61.5	57.6	42.3	23.1	15.4	19.2	34.6	49.9	57.6
75°	46.1	42.3	30.7	15.4	11.5	15.4	26.9	38.4	42.3
77.5°	30.7	30.7	23.1	11.5	11.5	11.5	19.2	26.9	26.9
80°	23.1	19.2	15.4	7.7	7.7	7.7	11.5	19.2	19.2
82.5°	15.4	11.5	11.5	7.7	7.7	7.7	7.7	11.5	11.5
85°	7.7	7.7	7.7	3.8	3.8	3.8	3.8	7.7	7.7
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)